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1 On computing nearest singular hankel matrices

Markus A. Hitz

July 2005 **ISSAC '05: Proceedings of the 2005 international symposium on algebraic computation**

Publisher: ACM

Full text available: [Pdf \(97.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#)

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We explore the problem of computing a nearest singular matrix to a given Hankel matrix while preserving the structure of the matrix. Nearness is measured by a matrix norm, or a componentwise norm. A recent result for structured matrices ...

Keywords: Hankel, Toeplitz, hybrid symbolic/numeric computing, near matrix, parametric minimization

2 Block variants of Hammarling's method for solving Lyapunov equations

Daniel Kressner

January 2008 **Transactions on Mathematical Software (TOMS)**, Volume 34, Number 1

Publisher: ACM

Full text available: [Pdf \(240.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#)

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This article is concerned with the efficient numerical solution of the Lyapunov equation $A^T X + X A = -C$ with a stable matrix A and a symmetric positive semidefinite matrix C ...

Keywords: Lyapunov equation, block algorithm, numerical solution

3 A more reliable reduction algorithm for behavioral model extraction

D. Vasilyev, J. White

May 2005 **ICCAD '05: Proceedings of the 2005 IEEE/ACM International conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: [Pdf \(357.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#)

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In this paper we are concerned with developing more reliable model reduction algorithms for behavioral model extraction. The proposed algorithm is based on the